CLAIMS

What is claimed is:

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| 1~ | 1 | A method of providing for a call waiting notification to a participant in an existing |
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| 2 | teleph | one call, comprising the steps of: |
| 3 | | establishing a telephone call with a calling party; |
| 4 | | receiving from said calling party a specified telephone number of the participant |
| 5 | in the | existing telephone call; |
| 6 | | causing a distinctive call waiting tone to be sent to said participant wherein said |
| 7 | distinc | tive call waiting tone is specified with said calling party; and |
| 1=6 | | responsive to the participant electing to speak with said calling party, transferring |
| | said es | stablished call to the participant. |
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| 1 | 2. | The method of claim 1, further comprising the step of receiving from said calling |
| 2⊧ | party c | all information, and sending a distinctive call waiting tone to said participant |
| 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | based | upon said call information. |
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| 1[] | 3. | The method of claim 2, wherein said call information identifies said call as out-of- |
| 2 | area c | ode with respect to said participant. |
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| 1 | 4. | The method of claim 2, wherein said call/information comprises password |
| 2 | informa | ation, and further comprising the step of verifying said password information. |
| | | |
| 1 | 5. | The method of claim 1, further comprising the step of receiving subscriptions to |
| 2 | said ca | all waiting service provider, and verifying said call waiting subscription when said |
| 3 | call is | received by said call waiting service provider. |
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| 1 | 6. | The method of claim 1, further/comprising the step of providing a list to said |
| 2 | caller | of available call waiting messages, receiving from said caller a selection of a |

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- message, and sending a distinctive call waiting tone to said participant according to said selection.
 - 7. A system for providing for a caller a call waiting notification to a participant in an existing telephone call, comprising:

a call waiting service provider configured to receive a call from a calling party to identify in said received call a telephone number associated with said participant;

a distinctive call waiting tone generator configured to generate distinctive call waiting tones based upon characteristics of said calling party; and,

a switch for transferring said received call to the participant if the participant elects to accept the received call.

- 8. The system of claim 7, wherein said call waiting service provider further comprises a database comprising authorized passwords, and a data processing system for verifying a password received from said caller by comparing said password to said database of passwords.
- 9. The system of claim 7, further comprising a table of available call waiting messages, and a data processing system for receiving from said caller a selection of a message, and for assigning a call waiting tone according to said selection.
- 1 10. The system of claim 7/ further comprising a data processing system for receiving call information from said caller, and for sending a distinctive call waiting tone to said participant according to said call information.
- 1 11. The system of claim 10, wherein said call information identifies said caller as 2 being out-of-area code with respect to said participant, and said system sends a 3 distinctive call waiting tone to indicate to said participant that said call is out-of-area 4 code.

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- 1 12. The system of claim 10, wherein said call information comprises at least one
- selected form the group consisting of out-of-area code, password, time of day at point
- of origin, geographical location, and time zone information.
- 1 13. The system of claim 7, wherein said system comprises a database comprising
- subscription information, and a data processing system for comparing said telephone
- number received from said caller to said subscription information in said database.
 - 14. A system for providing a call waiting notification to participants in corresponding telephone calls, comprising:

fixed data storage for storing a list of call characteristics;

- a computer for matching said call characteristics with entries in said list;
- a call analyzer for detecting/characteristics in received calls;
- a call waiting tone generator for producing distinctive call waiting tones according to said entries in said list which match said detected call characteristics; and,
- a tone transmitter for sending said distinctive call waiting tones to said participants.
- 1 15. The system of claim 14, wherein said call characteristics are at least one
- selected form the group consisting of out-of-area code, password, time of day at point
- of origin, geographical location, and time zone characteristics.
- 1 16. The system of claim 14, further comprising structure for selecting said call
- characteristics from a menu of available call characteristics.
- 1 17. The system of claim 16, wherein said selection is made through a telephone
- 2 connection.

- 1 18. The system of claim 16, wherein said selection is made through an Internet connection.
- 1 19. The system of claim 14, further comprising password verification structure.
- 20. A method for providing a call waiting notification to a participant in a telephone call, comprising the steps of:

storing a list of call characteristics;

detecting call characteristics;

comparing said call characteristics to said list of call characteristics to determine if there is a match;

generating a call waiting tone according to the call characteristics of said match; and

sending said call waiting tone to said participant.

- 21. The method of claim 20, wherein said call characteristics are at least one selected form the group consisting of out-of-area code, password, time of day at point of origin, geographical location, and time zone characteristics.
- 1 22. The method of claim 20, further comprising the step of creating said list of call characteristics.
- The method of claim 22, wherein said step of creating said list of call characteristics comprises the step of selecting call characteristics from a menu of available call characteristics.
- 1 24. The method of claim 23, wherein said selection is made through a telephone connection.

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- 1 25. The method of claim 23, wherein said selection is made through an Internet
- 2 connection.